



STIC Search Report

EIC 2600

STIC Database Tracking Number: 101195

TO: Jason Salce
Location: PK 2 6 B 43
Art Unit : 2611
Wednesday, August 20, 2003

Case Serial Number: 09/177,356

From: Terri Beale
Location: EIC 2600
PK2-3T05
Phone: 306-0254

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Search Notes

Dear Jason Salce;

Attached please find the results of your search request 09/177,356. Please feel free to contact me if you have questions or concerns. Thank you and have a great day.

Please take a moment and fill out the attached feedback form. Thank you.

Access DB# 101195
27

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Jason Salce Examiner #: 78781 Date: 8-13-03
Art Unit: 2611 Phone Number 305-1824 Serial Number: 09177356
Mail Box and Bldg/Room Location: 6B43 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers; and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Telepresence System and Active/Passive Mode
Inventors (please provide full names): McGuire, Francis J. Display For Use Therein
Jr.

Earliest Priority Filing Date: 10/23/97

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

{see attached for description
and claims}

8/14/03 11:20

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: _____	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
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Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

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File 344:Chinese Patents Abs Aug 1985-2003/Mar
(c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2003/Apr(Updated 030804)
(c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200353
(c) 2003 Thomson Derwent

Set	Items	Description
S1	10	AU='MAGUIRE F J'

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1/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014725745 **Image available**
WPI Acc No: 2002-546449/200258
XRPX Acc No: N02-432520

Virtual reality environment presentation apparatus has head-mounted display which displays integrated images including virtual objects moving with respect to real objects, based on real and virtual object image signals

Patent Assignee: MAGUIRE F J (MAGU-I)

Inventor: MAGUIRE F J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6411266	B1	20020625	US 93109919	A	19930823	200258 B
			US 95560108	A	19951117	

Priority Applications (No Type Date): US 93109919 A 19930823; US 95560108 A 19951117

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6411266	B1	12	G09G-005/00	Cont of application US 93109919	

Abstract (Basic): US 6411266 B1

NOVELTY - A computer and image processor (16) generates an integrated image signal (26) corresponding to a real object image signal (14) from a head-mounted camera (10), and a virtual object image signal (24). A head-mounted display (28) displays integrated images in response to integrated image signal, with virtual objects moving with respect to real objects.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for virtual reality environment presentation method.

USE - Virtual reality environment presentation apparatus.

ADVANTAGE - Ensures clear visibility as that of real objects without causing any lag with respect to vision. Ensures utilization of computational power of the image processing system to speed up the imaging of virtual objects, since only the images of virtual objects need to be processed.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the image processing system.

Head-mounted camera (10)
Real object image signal (14)
Computer and image processor (16)
Virtual object image signal (24)
Integrated image signal (26)
Head-mounted display (28)
pp; 12 DwgNo 1/4

Title Terms: VIRTUAL; ENVIRONMENT; PRESENT; APPARATUS; HEAD; MOUNT; DISPLAY ; DISPLAY; INTEGRATE; IMAGE; VIRTUAL; OBJECT; MOVE; RESPECT; REAL; OBJECT ; BASED; REAL; VIRTUAL; OBJECT; IMAGE; SIGNAL

Derwent Class: P85; T01; T04; W04

International Patent Class (Main): G09G-005/00

File Segment: EPI; EngPI

1/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014560266 **Image available**
WPI Acc No: 2002-380969/200241
XRPX Acc No: N02-298022

Eye tracking apparatus e.g. for controlling image display, provides control signal based on eye direction signal referenced to reference

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coordinate system

Patent Assignee: MAGUIRE F J (MAGU-I)

Inventor: MAGUIRE F J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6359601	B1	20020319	US 93126948	A	19930927	200241 B
			US 94364718	A	19941227	

Priority Applications (No Type Date): US 94364718 A 19941227; US 93126948 A 19930927

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6359601	B1	14	G09G-005/00		CIP of application US 93126948
					CIP of patent US 5440913

Abstract (Basic): US 6359601 B1

NOVELTY - A pair of left and right eye monitors (20,22), the head attitude and translational position monitors (24,27) and body attitude and translational position monitors (25,26) provide corresponding output signals. The output signals are processed by a computer (36) to perform eye-head coordinate transformation and produce a tracking or visual axis signal which is fed to a controller (40).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for eye monitoring method.

USE - For controlling image display by positioning image artifact, positioning more highly detailed portion of image with respect to a lesser detailed portion, locating portions of image having more dynamic range than the rest of the image, for acquiring a target to control a projectile, for measuring pitch, roll and yaw of pilot's head within the cockpit of high performance aircraft and various other purposes.

ADVANTAGE - The eye's translatory position is related to that of the head by a translatory transformation of the respective coordinate systems in a simple way, involving only constants and not requiring any monitoring of the eye's translatory position with respect to that of head.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the eye tracking apparatus.

Left and right eye monitors (20,22)
Head attitude monitor (24)
Body attitude monitor (25)
Body translational position monitor (26)
Head translational position monitor (27)
Computer (36)
Controller (40)
pp; 14 DwgNo 1/6

Title Terms: EYE; TRACK; APPARATUS; CONTROL; IMAGE; DISPLAY; CONTROL; SIGNAL; BASED; EYE; DIRECTION; SIGNAL; REFERENCE; REFERENCE; COORDINATE; SYSTEM

Derwent Class: P85; S05; T01; T04

International Patent Class (Main): G09G-005/00

File Segment: EPI; EngPI

1/5/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014342012 **Image available**

WPI Acc No: 2002-162715/200221

Related WPI Acc No: 1997-350405; 2000-637274

XRPX Acc No: N02-124101

Stereoscopic image presentation apparatus for virtual reality, provides left and right images so that they are overlapped by binocular field of view with range less than that for monocular field of view

Patent Assignee: MAGUIRE F J (MAGU-I)

August 20, 2003

Inventor: **MAGUIRE F J**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6246382	B1	20010612	US 9325975	A	19930303	200221 B
			US 97884810	A	19970630	
			US 98195850	A	19981119	

Priority Applications (No Type Date): US 9325975 A 19930303; US 97884810 A 19970630; US 98195850 A 19981119

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6246382	B1	18	G09G-005/00		Cont of application US 9325975 Cont of application US 97884810 Cont of patent US 5644324 Cont of patent US 6094182

Abstract (Basic): US 6246382 B1

NOVELTY - Stereoscopic image pairs are generated successively with respect to left and right image signals produced based on input image signal. Each image pair has left and right images that are arranged to overlap each other so that range of binocular field of view for stereo image is less than range for monocular field of view.

USE - In stereo image display system for virtual reality system.

ADVANTAGE - Facilitates close examination of imaged objects by providing successive stereo image pair without discomfort to viewer. Provides images at various apparent distance so that focus of viewer's eyes is adjusted to successive images at various distance. Facilitates high speed imaging process by reducing usage of memory.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of stereoscopic image presentation system.

pp; 18 DwgNo 10/13

Title Terms: STEREOSCOPIC; IMAGE; PRESENT; APPARATUS; VIRTUAL; LEFT; RIGHT; IMAGE; SO; OVERLAP; BINOCULAR; FIELD; VIEW; RANGE; LESS; MONOCULAR; FIELD ; VIEW

Derwent Class: P85; T01; W04

International Patent Class (Main): G09G-005/00

File Segment: EPI; EngPI

1/5/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014284168 **Image available**

WPI Acc No: 2002-104869/200214

XRPX Acc No: N02-077911

Attitudinal head movements inducing apparatus for passive virtual reality entertainment applications, changes orientation of light source in response to head guide control signal, for guiding head of viewer

Patent Assignee: MAGUIRE F J (MAGU-I)

Inventor: **MAGUIRE F J**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6181371	B1	20010130	US 95452510	A	19950530	200214 B
			US 97794122	A	19970203	

Priority Applications (No Type Date): US 97794122 A 19970203; US 95452510 A 19950530

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6181371	B1	32	H04N-007/18		CIP of application US 95452510

Abstract (Basic): US 6181371 B1

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NOVELTY - A light source transmits light in response to light control signal, for forming image in head mounted display (106) of passive viewer. The head of viewer is mechanically coupled with light source by head coupler. The light source actuator changes the orientation of light source in response to head guide control signal, for guiding head of viewer.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for attitudinal head movement inducing method.

USE - For passive virtual reality entertainment applications e.g. drama, comedy and documentaries.

ADVANTAGE - The need for cameraman is eliminated since motion controlled head guide is actuated in such as way to emulate head movements of cameraman in synchronism with images actively sensed by camera-man.

DESCRIPTION OF DRAWING(S) - The figure shows the attitudinal head movement inducing apparatus.

Head mounted display (106)

pp; 32 DwgNo 7/21

Title Terms: HEAD; MOVEMENT; INDUCE; APPARATUS; PASSIVE; VIRTUAL;

ENTERTAINMENT; APPLY; CHANGE; ORIENT; LIGHT; SOURCE; RESPOND; HEAD; GUIDE ; CONTROL; SIGNAL; GUIDE; HEAD; VIEW

Derwent Class: S02; W04

International Patent Class (Main): H04N-007/18

File Segment: EPI

1/5/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013465331 **Image available**

WPI Acc No: 2000-637274/200061

Related WPI Acc No: 1997-350405

XRPX Acc No: N00-472572

Successive images providing method for virtual reality by moving image source distance in response to control signals

Patent Assignee: MAGUIRE F J (MAGU-I)

Inventor: MAGUIRE F J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6094182	A	20000725	US 9325975	A	19930303	200061 B
			US 97884810	A	19970630	

Priority Applications (No Type Date): US 9325975 A 19930303; US 97884810 A 19970630

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6094182	A		17	G09G-005/00	Cont of application US 9325975 Cont of patent US 5644324

Abstract (Basic): US 6094182 A

NOVELTY - A decoder (23) is responsive to an encoded image signal on a line (24) for providing a display signal on a line (25) to the display (18). A variable magnification device (34) is situated in between the viewer (16) and the display and is responsive to a control signal on a line (36) for providing images to viewer at various distances. A computer (38) is responsive to viewer eye monitor signals on lines (40,42) for providing the control signal on the line (36).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an apparatus for providing successive images.

USE - For virtual reality.

ADVANTAGE - It can present both close and distant successive images for virtual reality without discomfort to viewer's eyes.

DESCRIPTION OF DRAWING(S) - The figure shows an active viewer in an image space having successive images presented at various apparent

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distances.

Viewer (16)
Display (18)
Decoder (23)
Line (24,25,36,40,42)
Computer (38)
pp; 17 DwgNo 3/12

Title Terms: SUCCESSION; IMAGE; METHOD; VIRTUAL; MOVE; IMAGE; SOURCE;
DISTANCE; RESPOND; CONTROL; SIGNAL
Derwent Class: P85; T01; T04; W04
International Patent Class (Main): G09G-005/00
File Segment: EPI; EngPI

1/5/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX
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011869189 **Image available**
WPI Acc No: 1998-286099/199825
Related WPI Acc No: 1995-214812
XRPX Acc No: N98-224910

Solid flexible lens stretching system for stereoscopic television - has several legs radiating externally from edge of flexible lens, and base plate is rotated with respect to rotary plate for pulling legs, thereby stretching or thinning flexible lens

Patent Assignee: MAGUIRE F J (MAGU-I)

Inventor: MAGUIRE F J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5748382	A	19980505	US 931736	A	19930107	199825 B
			US 95462503	A	19950605	

Priority Applications (No Type Date): US 931736 A 19930107; US 95462503 A 19950605

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5748382	A		G02B-015/14	Div ex application US 931736 Div ex patent US 5422653

Abstract (Basic): US 5748382 A

The system includes a lens (870) with flexible lens section (872) at its centre. The lens section is made up of an ethylene-propylene-diene terpolymer vulcanizate. Several legs (874) radiates out from the edge of the central lens section by which it is made thinner.

A first rotary plate (880) is used for mounting the lens on pins. Several through holes (884) formed at the end of each leg are placed over the pins. A second plate used as a base plate is rotated with respect to first rotary plate and legs arranged in same plane are pulled, thereby stretching or thinning the lens section.

ADVANTAGE - Reduces time lag between viewer's action and response of imaging system.

Dwg.26/35

Title Terms: SOLID; FLEXIBLE; LENS; STRETCH; SYSTEM; STEREOSCOPIC; TELEVISION; LEG; RADIATE; EXTERNAL; EDGE; FLEXIBLE; LENS; BASE; PLATE; ROTATING; RESPECT; ROTATING; PLATE; PULL; LEG; STRETCH; THIN; FLEXIBLE; LENS

Derwent Class: P81; P85; W02; W03; W04

International Patent Class (Main): G02B-015/14

International Patent Class (Additional): G02B-003/12

File Segment: EPI; EngPI

1/5/7 (Item 7 from file: 350)

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DIALOG(R)File 350:Derwent WPIX
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011813093 **Image available**
WPI Acc No: 1998-230003/199820
XRPX Acc No: N98-182153

Helmet with helmet mounted display - is attitudinally controlled in
framework for moving head of passive viewer, and display is for viewing
images that emulate images viewed by camera-man with head mounted cameras
Patent Assignee: MAGUIRE F J (MAGU-I)
Inventor: MAGUIRE F J
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
US 5734421 A 19980331 US 95452510 A 19950530 199820 B

Priority Applications (No Type Date): US 95452510 A 19950530
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 5734421 A 34 H04N-007/18

Abstract (Basic): US 5734421 A

The apparatus, comprises a camera for mounting on a head of a cameraman, responsive to light reflected from objects in an object space, for providing an image signal indicative of the objects viewed by the camera-man. A head attitude monitor, responds to an attitude of the head of the camera-man, for providing an attitude signal indicative of attitudinal head motions of the head of the cameraman as the objects are viewed by the camera-man.

A video and head motion signal processor, responds to the image signal and to the attitude signal, for providing an encoded signal for decoding in an image space for controlling attitudinal head motions of a passive viewer in the image space corresponding to the attitudinal head motions of the head of the camera-man and for providing images of the objects to the passive viewer corresponding to the objects viewed by the cameraman. An eye monitor, responds to attitudinal movements of an eye in the head of the camera-man, for providing an eye attitude signal indicative of direction of a visual axis of the camera-man. The video and head motion signal processor also has a camera control, responsive to the eye attitude signal, for providing an image control signal.

USE - For presenting successive images to viewer.

ADVANTAGE - Viewers eyes may be induced to follow sequence of visual positions as user's head is forced to move.

Dwg.1/10

Title Terms: HELMET; HELMET; MOUNT; DISPLAY; CONTROL; FRAMEWORK; MOVE; HEAD
; PASSIVE; VIEW; DISPLAY; VIEW; IMAGE; EMULATION; IMAGE; VIEW; CAMERA;
MAN; HEAD; MOUNT; CAMERA
Index Terms/Additional Words: HMD
Derwent Class: P85; S05; W04; X27
International Patent Class (Main): H04N-007/18
International Patent Class (Additional): G09G-003/02
File Segment: EPI; EngPI

1/5/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011372498 **Image available**
WPI Acc No: 1997-350405/199732
Related WPI Acc No: 2000-637274; 2002-162715
XRPX Acc No: N97-290472

Virtual reality image output system - providing successive output images
at varying apparent distances for viewing along axis of eye of viewer and

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monitoring eyes in image space to provide image distance control signal
to indicate varying image distances

Patent Assignee: MAGUIRE F J (MAGU-I)

Inventor: MAGUIRE F J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5644324	A	19970701	US 9325975	A	19930303	199732 B

Priority Applications (No Type Date): US 9325975 A 19930303

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5644324	A		21	G09G-005/00	

Abstract (Basic): US 5644324 A

An image distance control signal (3) indicating varying image distances, an image signal (8), and an image control signal (9) are provided in response to combined image and control signal (11). Successive input images (4) are provided in response to the image signal (8) and the image control signal (9).

Corresponding successive output images (2) are provided at varying apparent distances for viewing along a visual axis (6) of an eye (5) of a viewer with correspondingly varying accommodation, in response to the image distance control signal (3) and the successive input images (4).

The eyes (19,20) of the viewer (16) in an image space (17) are monitored (44; 46) for providing the image distance control signal (36) indicative of varying image distances.

ADVANTAGE - Relationship between accommodation and convergence is preserved. Images have highly detailed component which has its image content changed according to changes in direction of monitored visual axes. Images are provided stereoscopically.

Dwg.3/12

Title Terms: VIRTUAL; IMAGE; OUTPUT; SYSTEM; SUCCESSION; OUTPUT; IMAGE;
VARY; APPARENT; DISTANCE; VIEW; AXIS; EYE; VIEW; MONITOR; EYE; IMAGE;
SPACE; IMAGE; DISTANCE; CONTROL; SIGNAL; INDICATE; VARY; IMAGE; DISTANCE
Derwent Class: P85; T01

International Patent Class (Main): G09G-005/00

File Segment: EPI; EngPI

1/5/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010313554 **Image available**

WPI Acc No: 1995-214812/199528

Related WPI Acc No: 1998-286099

XRPX Acc No: N95-168439

Passive virtual reality in computer presentation of visual information -
providing successive mixed optical images of object space in image space
for viewer's visual appts each of images having highly and less detailed
components

Patent Assignee: MAGUIRE F J (MAGU-I)

Inventor: MAGUIRE F J

Number of Countries: 001 Number of Patents: 001

Patent Family:-

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5422653	A	19950606	US 931736	A	19930107	199528 B

Priority Applications (No Type Date): US 931736 A 19930107

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5422653	A		48	G09G-003/02	

Abstract (Basic): US 5422653 A

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The method involves receiving an image signal encoded with image information for successive images, each image having non-uniform resolution comprising an area of greater resolution in a position in the image and within a surrounding area of lesser resolution together being simulative of retinal resolution. The position of the area of greater resolution in the image changes between the successive images. The changes in the position of the area of greater resolution indicate changes in direction of a visual axis of an eye.

The method also entails decoding the input image signal, for providing a decoded image signal, and providing, in response to the decoded image signal, successive light images with the image information simulative of retinal resolution having areas of greater and lesser resolution.

USE/ADVANTAGE - In computer virtual reality display. Provides images simulative of active of active observations for passive perception, also permitting viewer to experience perception as if inside head of another person.

Dwg.2/35

Title Terms: PASSIVE; VIRTUAL; COMPUTER; PRESENT; VISUAL; INFORMATION; SUCCESSION; MIX; OPTICAL; IMAGE; OBJECT; SPACE; IMAGE; SPACE; VIEW; VISUAL; APPARATUS; IMAGE; HIGH; LESS; DETAIL; COMPONENT

Derwent Class: P85; T01

International Patent Class (Main): G09G-003/02

File Segment: EPI; EngPI

1/5/10 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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003036002

WPI Acc No: 1981-D6016D/198116

Photograph mount with dual supports - has window forming frame with front and back sides and recess at back side for glass, picture and back board

Patent Assignee: BURNES C D CO INC (BURN-N)

Inventor: MAGUIRE F J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4258489	A	19810331				198116 B

Priority Applications (No Type Date): US 78918700 A 19780626

Abstract (Basic): US 4258489 A

The mount for photographs, pictures and the like comprises a rigid frame defining within its perimeter a window opening, the frame having front and back sides.

At the back side one or more planar surfaces define one or more recesses for receiving in superimposed relation window glass, a photograph or picture, a removable back panel, and a back board attached to the rearmost planar surface over the back panel. The frame is of ceramics and the back board may optionally be provided with a hanger and/or support.

Title Terms: PHOTOGRAPH; MOUNT; DUAL; SUPPORT; WINDOW; FORMING; FRAME; FRONT; BACK; SIDE; RECESS; BACK; SIDE; GLASS; PICTURE; BACK; BOARD

Derwent Class: P27; P85

International Patent Class (Additional): A47G-001/06; G09F-001/12

File Segment: EngPI